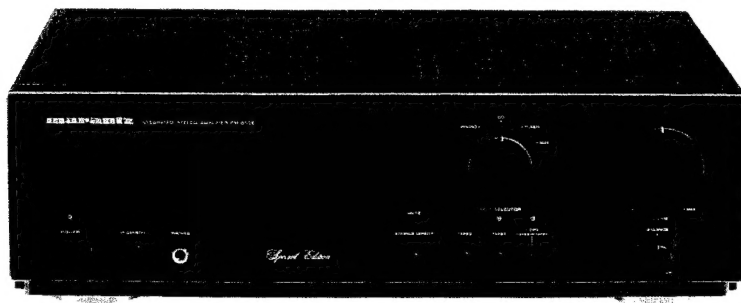


# Service Manual

**PM-66SE F**  
**74PM66 / 11B / 12B / 15B**  
**Integrated stereo amplifier**



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Please use this service manual with referring to the user guide ( D.F.U. ) without fail.

修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

# marantz®

## model PM-66SE

## MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

### ORDERING PARTS:

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

#### USA

MARANTZ AMERICA, INC.  
440 MEDINAH ROAD  
ROSELLE, ILLINOIS 60172-2330  
USA  
PHONE : 708-307-3100  
FAX : 708-307-2687

#### CANADA

LENBROOK INDUSTRIES LIMITED  
633 GRANITE COURT,  
PICKERING, ONTARIO L1W 3K1  
CANADA  
PHONE : 416-831-8333  
FAX : 416-831-8936

#### EUROPE

MARANTZ EUROPE B.V.  
P.O.BOX 80002  
BUILDING SFF2  
5800 JB EINDHOVEN  
THE NETHERLANDS  
PHONE : +31-40-2732241  
FAX : +31-40-2735578

#### PROFESSIONAL-USA

SUPERSCOPE TECHNOLOGIES, INC.  
MARANTZ PROFESSIONAL PRODUCTS  
1000 CORPORATE BLVD., SUITE D  
AURORA, ILLINOIS 60504 USA  
PHONE : 708-820-4800  
FAX : 708-820-8103

#### PROFESSIONAL-CANADA

TC ELECTRONICS CANADA LTD  
540 FIRING AVE.  
BAIE D'URFÉ, QUEBEC H9X 3T2  
CANADA  
PHONE : 514-457-4044  
FAX : 514-457-5524

#### TRADING

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THE NETHERLANDS  
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#### AUSTRALIA

MARANTZ AUSTRALIA  
3 Figtree Drive  
Australia Centre  
Homebush, NSW2140 AUSTRALIA  
PHONE : +61 2 742.8311  
FAX : +61 2 7643074

#### HONG-KONG

FORWARD INTERNATIONAL CORP. LTD.  
15 TH FLOOR, REGENT CENTRE,  
88 QUEEN'S ROAD, CENTRAL, H. K.  
PHONE : +852 521-0883  
FAX : +852 521-7835

#### THAILAND

MRZ STANDARD CO., LTD.  
746-750 WANGBURAPA BANGKOK  
10200 THAILAND  
PHONE : +66 2222 9181  
FAX : +66 2225 8871

#### TAIWAN

PAI-YUING CO., LTD.  
6 TH FL NO. 148 SUNG KIANG RORD,  
TAIPEI, 10429, TAIWAN R.O.C.  
PHONE : +886 (2) 5221304-8  
FAX : +886 (2) 5630415

#### MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.  
NO. 102 JALAN SS 21/35, DAMANSARA  
UTAMA, 47400 PETALING JAYA  
SELANGOR DARUL EHSAN,  
MALAYSIA  
PHONE : +60 3-7184888  
FAX : +60 3-7173828

#### SINGAPORE

FORWARD MARKETING (SINGAPORE) PTE. LTD.  
29, LENG KEE ROAD  
SINGAPORE 159099,  
PHONE : +65 475-4555  
FAX : +65 475-8623

#### JAPAN-Technical

MARANTZ JAPN INC.  
35-1, 7-chome, Sagamiono  
Sagamihara-shi, Kanagawa  
Japan  
PHONE : +81 427 48 2181  
FAX : +81 427 48 0889

#### 日本マランツ株式会社

本社 〒228 神奈川県相模原市相模大野7丁目35番1号  
営業本部 〒150 東京都渋谷区恵比寿南1丁目11番9号

### SHOCK, FIRE HAZARD SERVICE TEST:

**CAUTION:** After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins ( with unit NOT connected to AC mains and its Power switch ON ), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard NO.1492.

In case of difficulties, do not hesitate to contact the Technical  
Department at above mentioned address.

## 1. TECHNICAL SPECIFICATIONS

### Power output

RMS 8 ohms / 4 ohms .....	50 / 70W
DIN 8 ohms / 4 ohms .....	55 / 75W

### IHF dynamic power

8 ohms / 4 ohms .....	80 / 110W
THD at 8 ohms rated output .....	0.008 %
Intermodulation distortion .....	0.008 %
Damping factor .....	100

### Magnetic cartridge input

Input sensitivity impedance .....	2.5 mV / 47 k ohm
Accuracy of frequency response to IEC RIAA .....	0.5 dB
Signal to noise ratio ( IHF A weighted ) .....	87 dB

### Tuner / CD / Aux / Tape inputs

Input sensitivity impedance .....	150 mV / 33 k ohm
Signal to noise ratio ( A weighted ) .....	97 dB
Frequency response ( -3 dB limits ) .....	5 Hz - 70 kHz
Channel separation ( 1 kHz / 10 kHz ) .....	> 85 dB / 65 dB

### General

#### Power Requirements

/ 12, / 15 versions .....	230 V AC, 50 Hz
/ 11 version .....	110 / 120 / 220 / 240 V AC, 50 / 60 Hz
/ F version .....	100 V AC, 50 / 60 Hz

#### Dimensions ( MAX )

Width .....	439 mm
Height .....	138 mm
Depth .....	343 mm

#### Weight

Unit alone .....	6.7 kg
------------------	--------

Specifications subject to change without prior notice.

## 2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
ACVTVM	Voltage measurements ( AC )
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DCVTVM	Voltage measurements ( DC )
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

### 3. IDLING CURRENT ADJUSTMENT

- (1) Before switching the power ON, set the Master Volume control to the minimum position and the Balance to the center positions. Also set semi-fixed resistors R755 ( L CH ) and R756 ( R CH ) on PCB P701 to the center positions.
- (2) Each of the cement resistors R767 ( L CH ) and R768 ( R CH ) on the PCB P701 is provided with three test points. Connect a digital voltmeter, set for the DC voltage input, to the test points at the two extremities of the three test points of R767 or R768.
- (3) After the setup above, switch the power ON and adjust semi-fixed resistor R755 ( L CH ) or R756 ( R CH ) on PCB P701 according to the digital voltmeter reading. The target setting value is 14 mV ( 38.9mA ) for both the L CH and R CH.

Please refer to the table below.

Elapsed time after power ON	Idling current setting value
30 sec. - 1 min.	5 mV
1 min. - 2 min.	8 mV
2 min. - 4 min.	10.5 mV
More than 6 min.	14 mV

#### Note on Safety :

Symbol **▲** Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol **▲** . Any other component substitution ( other than original type ), may increase risk of fire or electrical shock hazard.

### 4. VOLTAGE CONVERSION

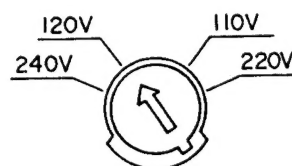
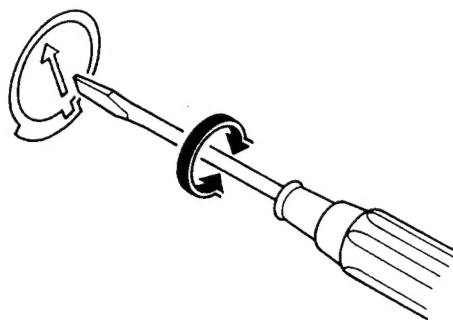
#### • /11B VERSION MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

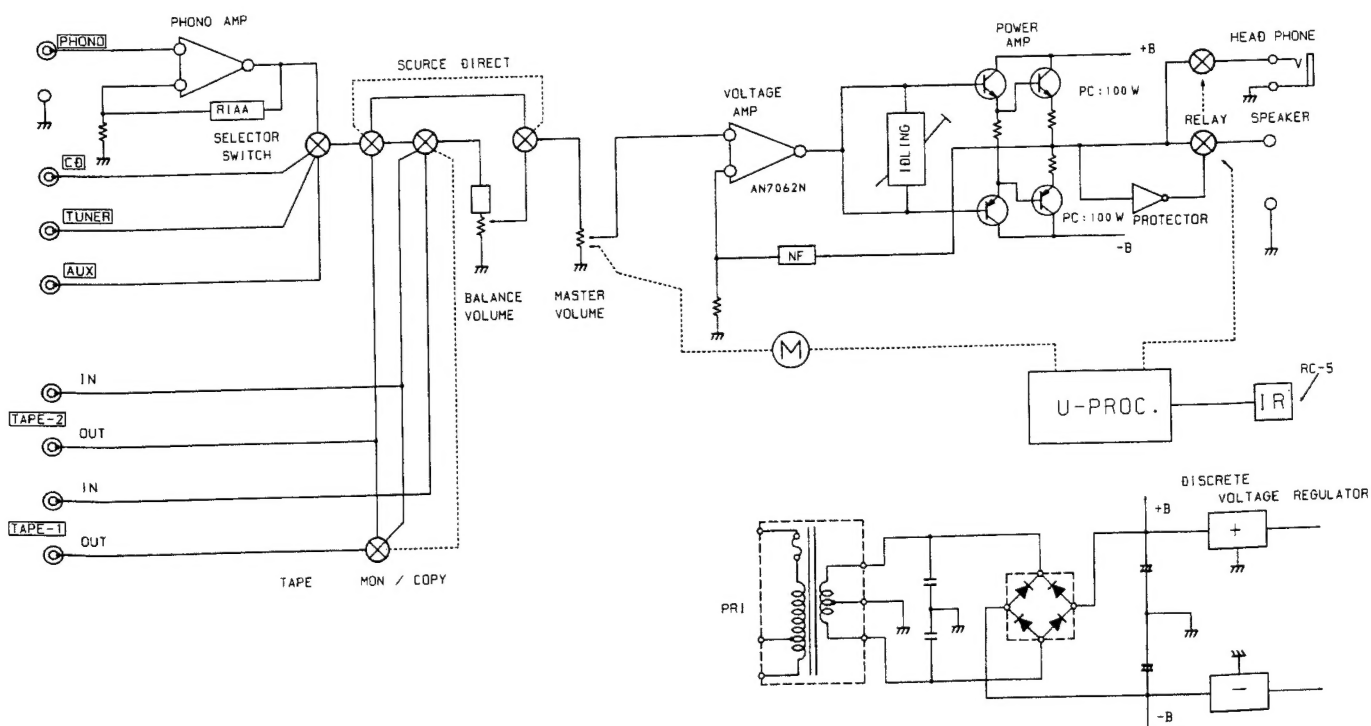
#### VOLTAGE SELECTOR

#### CAUTION

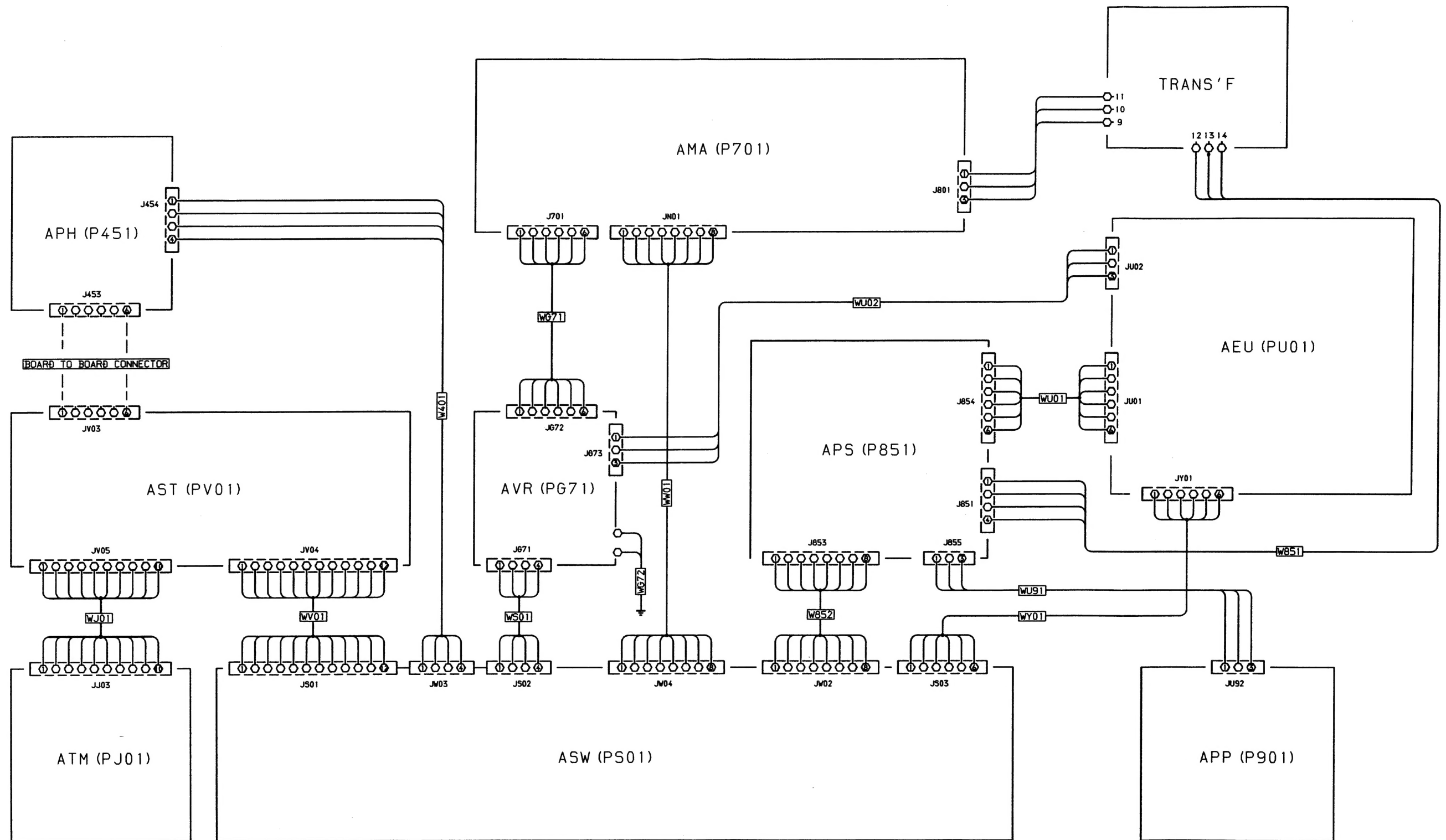
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

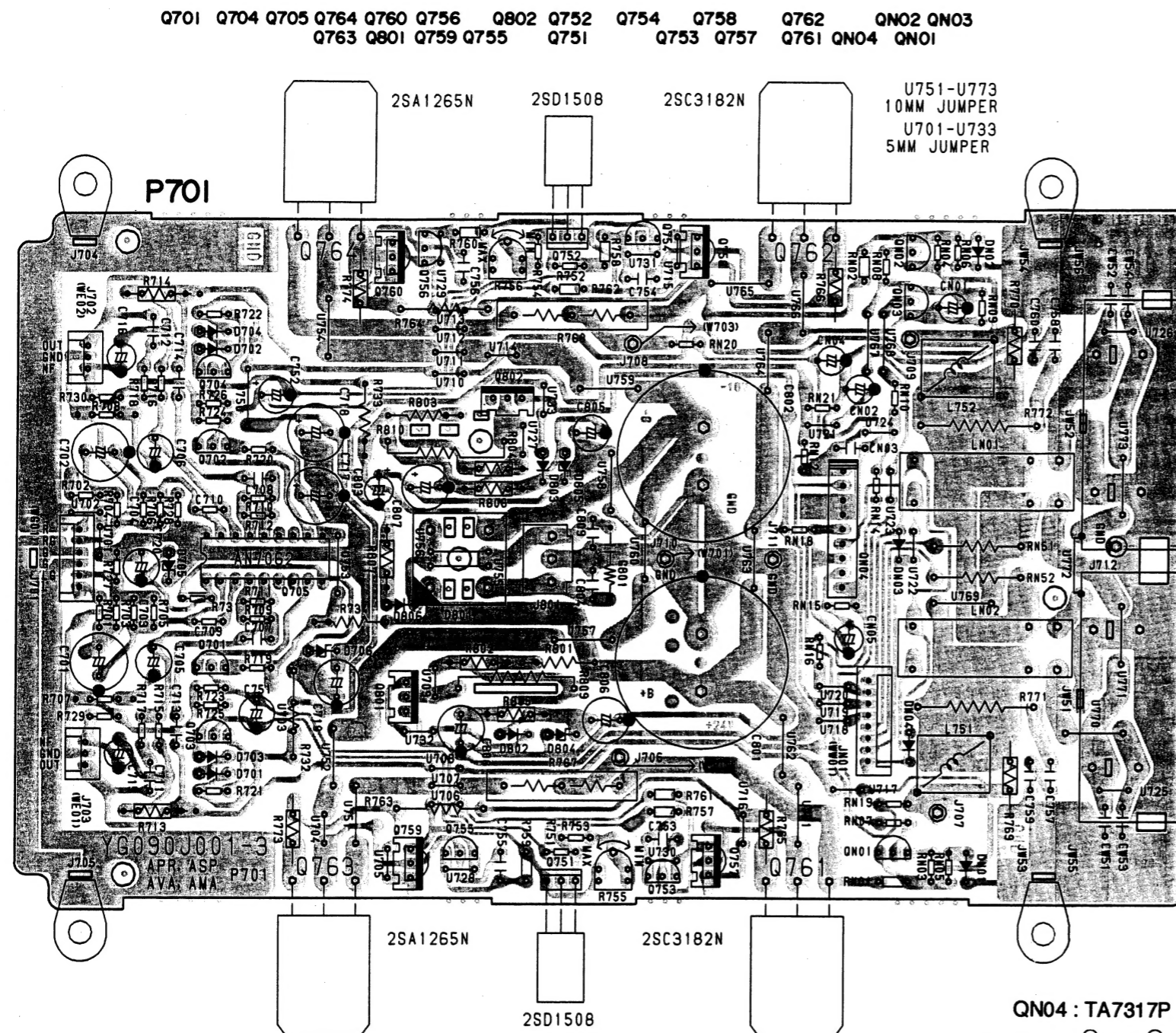


### 5. BLOCK DIAGRAM

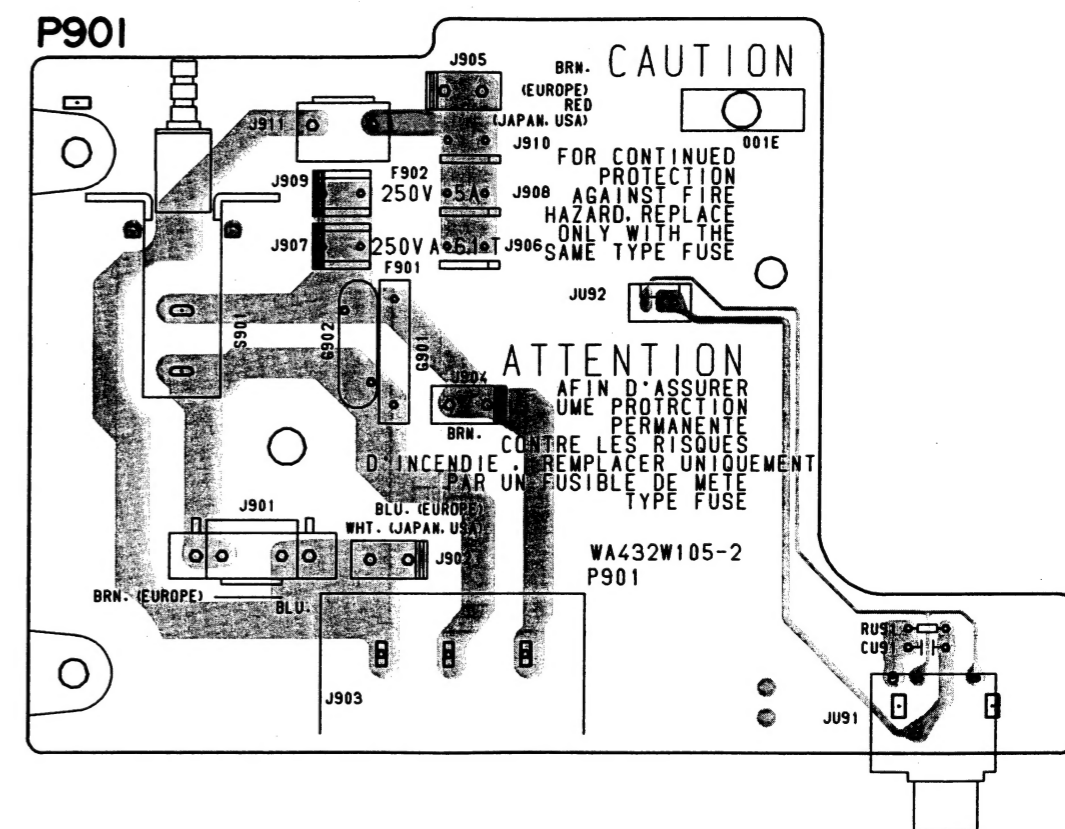
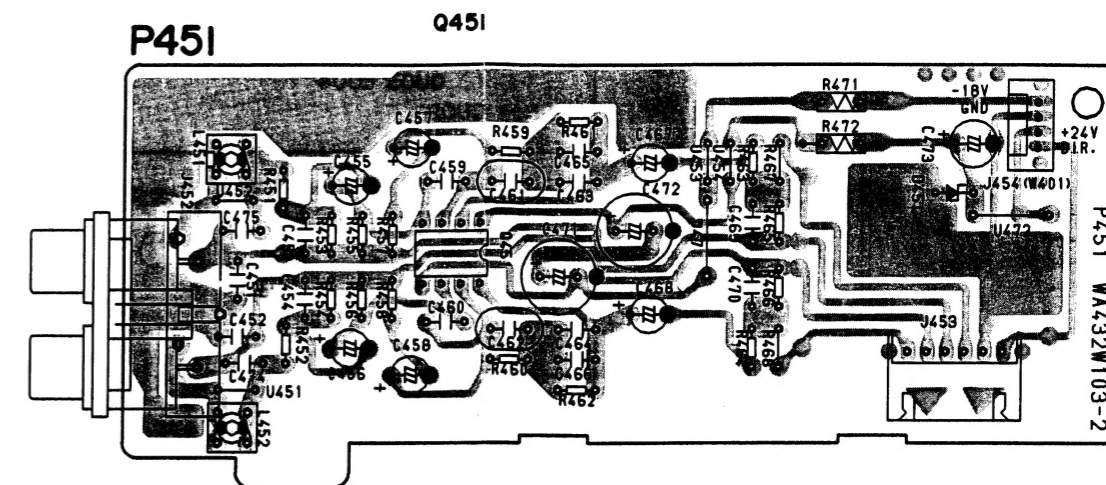
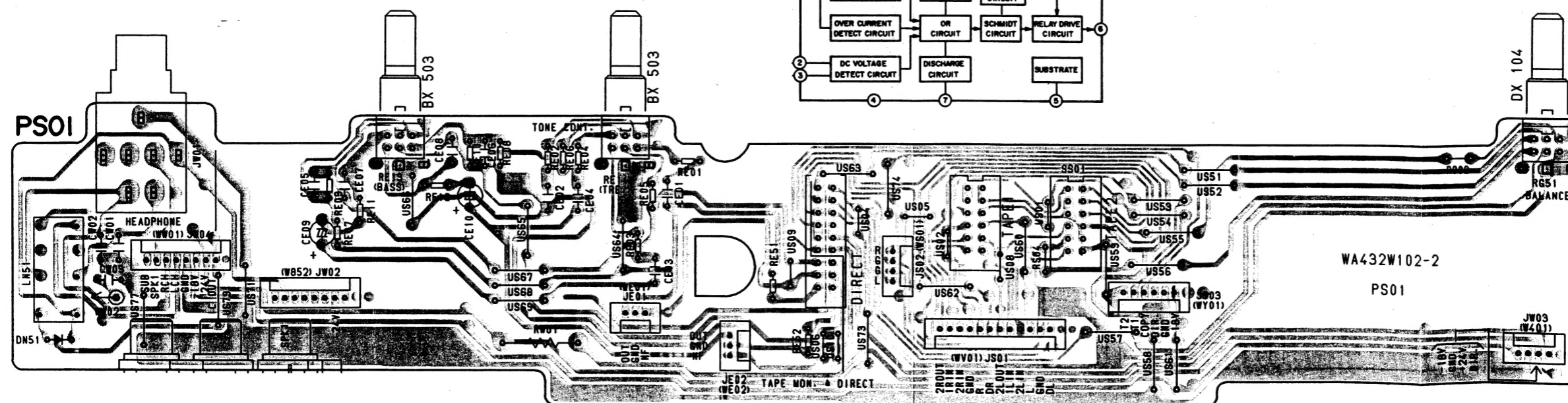
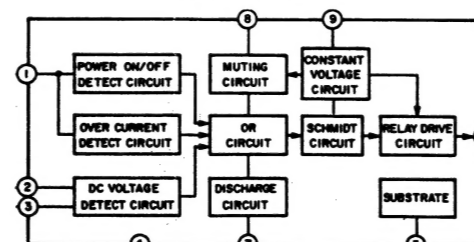


## 6. WIRING DIAGRAM



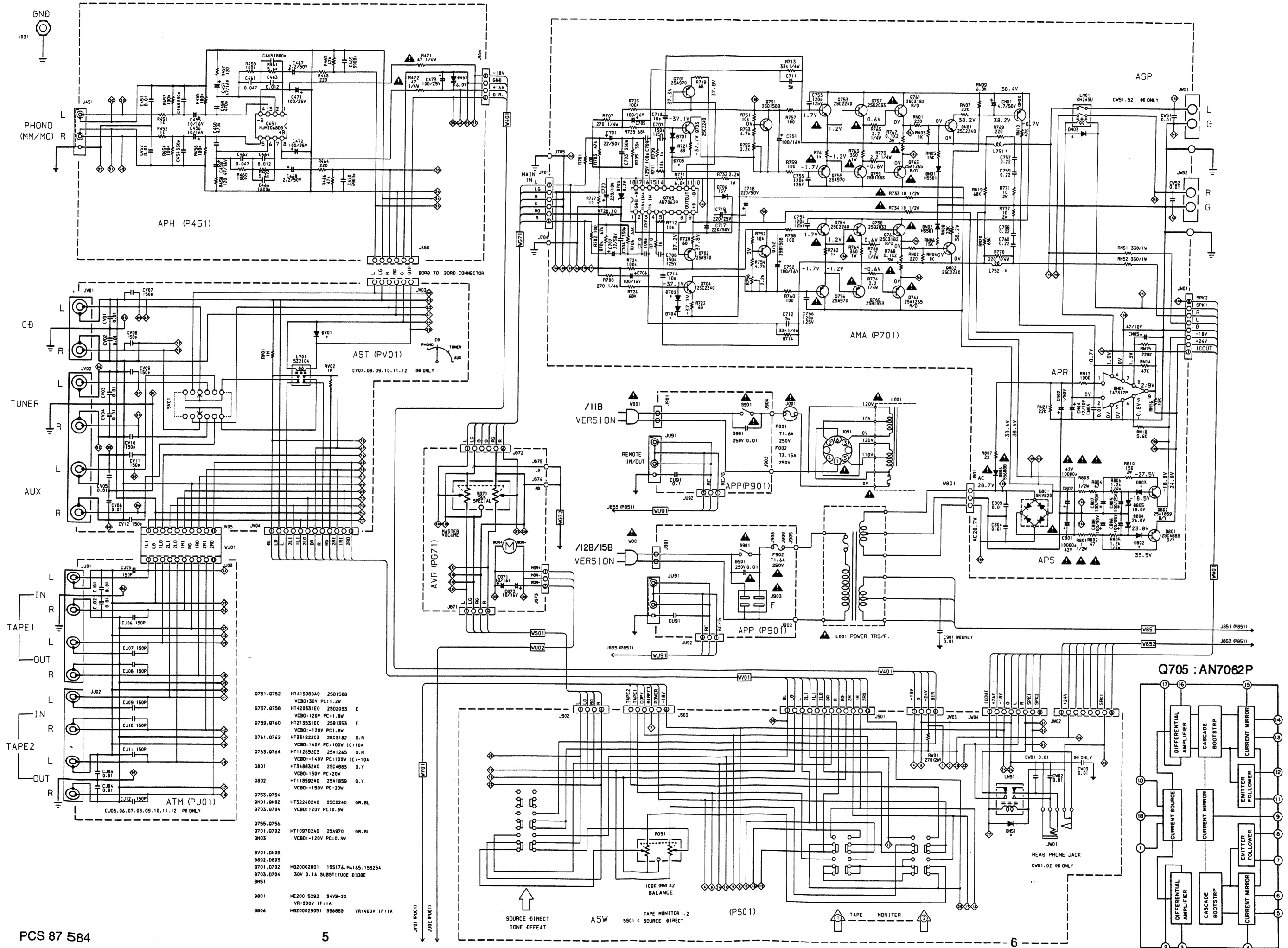


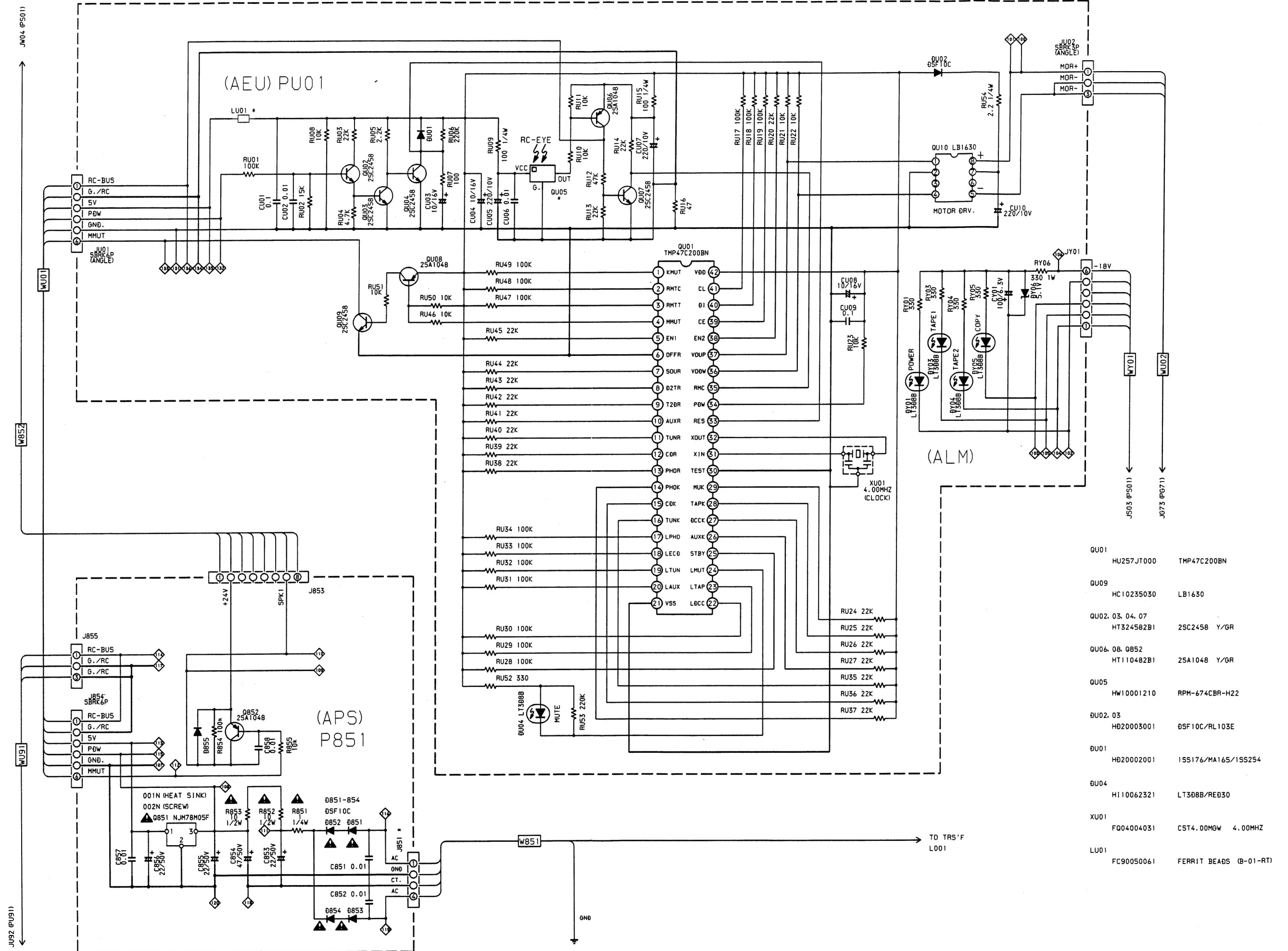
QN04 : TA7317P



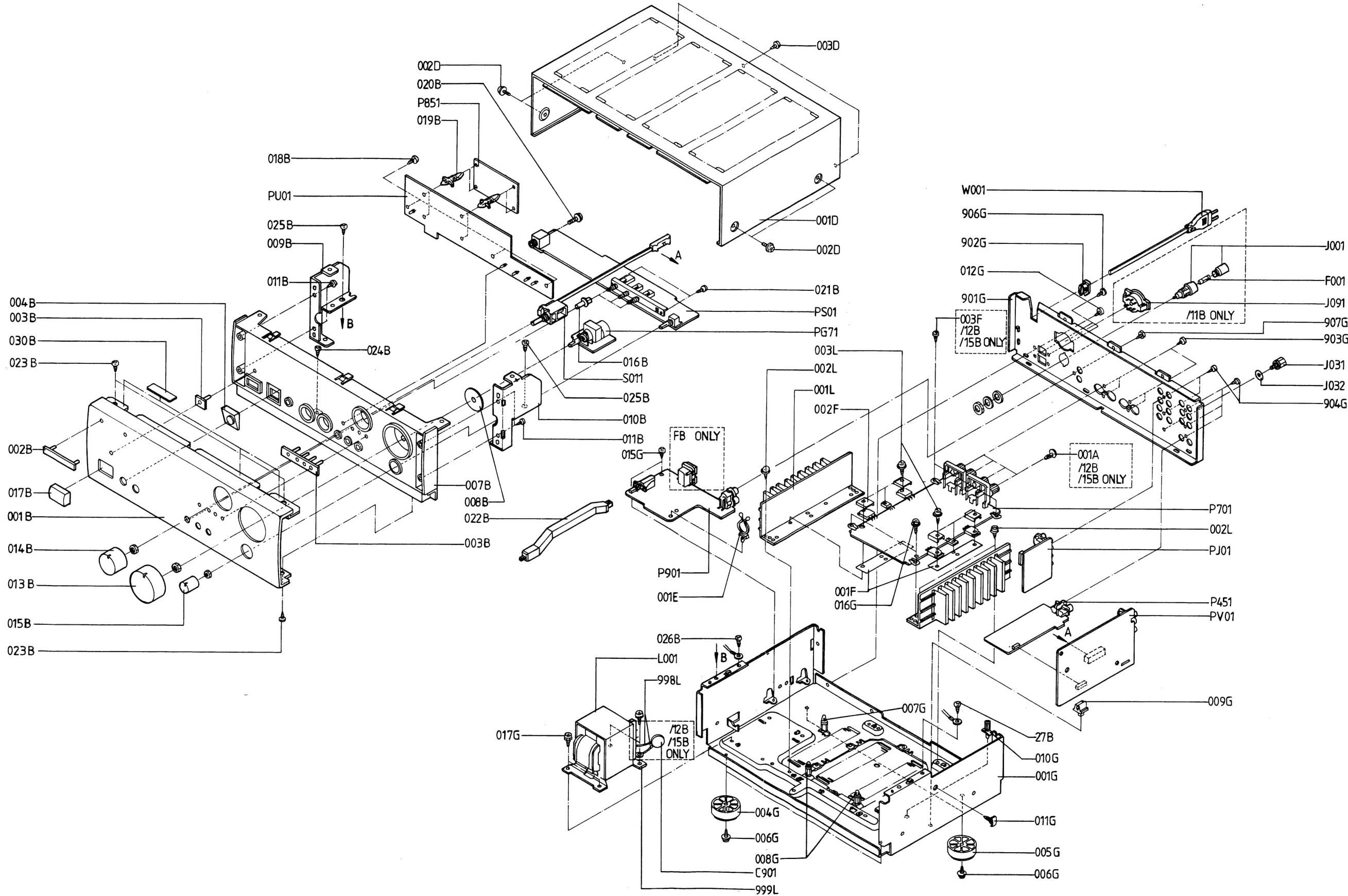


7. SCHEMATIC DIAGRAM AND PARTS LOCATION ( Pattern side )





8. EXPLODED VIEW AND PARTS LIST



POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
001B		4822 459 04257	FRONT AL PANEL (PM-66SE)	432W248010
002B		4822 454 12948	MARANTZ BADGE (BL)	185J251010
003B			LENS FOR LED	432W355010
004B		4822 381 11561	IR LENS	185J355010
007B			FRONT MOULD CHASSIS	432W105012
013B		4822 410 10559	VOLUME KNOB BLACK D=50	063J154080
014B		4822 410 10117	SELECTOR KNOB	064J154080
015B		4822 410 10561	KNOB	185J154010
016B		4822 410 60343	PUSH BUTTON BLACK	058J270030
017B		4822 462 72053	POWER BUTTON (BL)	285K270010
022B		4822 402 10517	LINK	185J121010
004G		4822 462 42129	LEG (GOLD HOT STAMP)	183J057010
005G		4822 462 42131	LEG (GOLD HOT STAMP) FOR REAR	183J057110
▲ F001	/11B	4822 070 31602	FUSE T1.60A IEC	QP07031602
▲ F002	/11B	4822 070 33152	FUSE T3.15A IEC	FS10315850
▲ J001	/11B	4822 256 30233	HOLDER FOR FUSES 5.2x10MM	YJ08000290
J031		4822 502 13921	SCREW PHONO GND	YLC03010310
▲ J091	/11B		SELECTOR VOLTAGE	BY05060090
▲ L001	F		TRANSFORMER E176/45	*TS000570R
	/11B	4822 146 21743	TRANSFORMER E176/45 OVS	TS17650020
	/12B/15B	4822 146 21744	TRANSFORMER E176/45 IEC	TS17650010
▲ W001	F		MAINS CORD F/E	YC02000770
	/11B/12B	4822 321 10781	MAINS CORD IEC	YC01800440
	/15B	4822 321 10941	MAINS CORD UK 5A	YC02000700
001T	F		IFU PM-66SE (F)	432W851110
	/11B /12B/15B	4822 736 14585	IFU PM-66SE (N)	432W851310
Z001		4822 219 10067	REMOTO UNIT RC-66PM	ZK432W0010

## 9. ELECTRICAL PARTS LIST

### ASSIGNMENT OF COMMON PARTS CODES.

#### RESISTOR

R\*\*\* : 1) GD05 x x x 140, Carbon film fixed resistor,  $\pm 5\%$  1/4W  
 R\*\*\* : 2) GD05 x x x 160, Carbon film fixed resistor,  $\pm 5\%$  1/6W

① — Resistance value

Examples :

① Resistance value

0.1Ω...001	10Ω...100	1kΩ...102	100kΩ...104
0.5Ω...005	18Ω...180	2.7kΩ...272	680kΩ...684
1Ω...010	100Ω...101	10kΩ...103	1MΩ...105
6.8Ω...068	390Ω...391	22kΩ...223	4.7MΩ...475

(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.

#### C\*\*\* : CERAMIC CAP.

1) DD1 x x x x 370, Ceramic capacitor  
 Disc type  
 Temp.coeff. P350~N1000, 50V  
 ① Capacity value  
 ② Tolerance

Examples

① Tolerance (Capacity deviation)

$\pm 0.25\text{pF}$  ... 0  
 $\pm 0.5\text{pF}$  ... 1  
 $\pm 5\%$  ... 5

\* Tolerance of COMMON PARTS handled here are as follows :

0.5pF~ 5pF... $\pm 0.25\text{pF}$   
 6pF~ 10pF... $\pm 0.5\text{pF}$   
 12pF~ 560pF... $\pm 5\%$

② Capacity value

0.5pF...005	3pF...030	100pF...101
1pF...010	10pF...100	220pF...221
1.5pF...015	47pF...470	560pF...561

#### C\*\*\* : CERAMIC CAP.

1) DK16 x x x x 300, High dielectric constant ceramic capacitor  
 Disc type  
 Temp.chara. 2B4, 50V  
 ① Capacity value

Examples

① Capacity value

100pF...101	1000pF...102	10000pF...103
470pF...471	2200pF...222	

#### C\*\*\* : ELECTROLY CAP. ( $\text{⏏}$ ), FILM CAP. ( $\text{⏏}$ )

1) EA x x x x x 10, Electrolytic capacitor  
 One-way lead type, Tolerance  $\pm 20\%$   
 ① Working voltage  
 ② Capacity value

Examples

① Capacity value

0.1μF...104	4.7μF...475	100μF...107
0.33μF...334	10μF...106	330μF...337
1μF...105	22μF...226	1100μF...118
		2200μF...228

② Working voltage

6.3V...006	25V...025
10V...010	35V...035
16V...016	50V...050

2) DF15 x x x 350 → Plastic film capacitor  
 DF15 x x x 310 → One-way type, Mylar  $\pm 5\%$  50V  
 DF16 x x x 310 → Plastic film capacitor  
 One-way type, Mylar  $\pm 10\%$  50V  
 ① Capacity value

Examples

① Capacity value

0.001μF(1000pF)...102	0.1μF...104
0.0018μF...182	0.56μF...564
0.01μF...103	1μF...105
0.015μF...153	

**NOTE** : 1) The above CODES ( R\*\*\*, R\*\*\*, C\*\*\*, C\*\*\* and C\*\*\* ) are omitted on the schematic diagram in some case.  
 2) On the occasion, be confirmed the common parts on the parts list.  
 3) Refer to "Common Parts List" for the other common parts ( RI05, DD4, DK4 ).

### NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows :

#### 1. KOA Corporation

Part No.	Type No.	Description
NH05 x x x 140	→ RF25S x x x x ΩJ	( $\pm 5\%$ 1/4W )
NH05 x x x 120	→ RF50S x x x x ΩJ	( $\pm 5\%$ 1/2W )
NH85 x x x 110	→ RF73B2A x x x x ΩJ	( $\pm 5\%$ 1/10W )
NH95 x x x 140	→ RF73B2E x x x x ΩJ	( $\pm 5\%$ 1/4W )

\* Resistance value (0.1-10kΩ)

#### 2. Matsushita Electronic Components Co., Ltd

Part No.	Type No.	Description
NF05 x x x 140	→ ERD-2FCJ x x x	( $\pm 5\%$ 1/4W )
RF05 x x x 140		
NF02 x x x 140	→ ERD-2FCG x x x	( $\pm 2\%$ 1/4W )
RF02 x x x 140		

\* Resistance value

Examples :

\* Resistance value

0.1Ω...001	10Ω...100	1kΩ...102	100kΩ...104
0.5Ω...005	18Ω...180	2.7kΩ...272	680kΩ...684
1Ω...010	100Ω...101	10kΩ...103	1MΩ...105
6.8Ω...068	390Ω...391	22kΩ...223	4.7MΩ...475

### ABBREVIATION AND MARKS

1	ANT. : ANTENNA	2	BATT. : BATTERY
3	CAP. : CAPACITOR	4	CER. : CERAMIC
5	CONN. : CONNECTING	6	DIG. : DIGITAL
7	HP : HEADPHONE	8	MIC. : MICROPHONE
9	μ-PRO : MICROPROCESSOR	10	REC. : RECORDING
11	RES. : RESISTOR	12	SPK : SPEAKER
13	SW : SWITCH	14	TRANSF. : TRANSFORMER
15	TRIM. : TRIMMING	16	TRS. : TRANSISTOR
17	VAR. : VARIABLE	18	X'TAL : CRYSTAL
19		20	
21		22	
23		24	
25		26	
27		28	
29		30	

### NOTE ON SAFETY :

Symbol  $\blacktriangle$  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol  $\blacktriangle$ . Any other component substitution ( other than original type ), may increase risk of fire or electrical shock hazard.

### 安全上の注意 :

$\blacktriangle$ がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
			<b>PG71-MASTER VOLUME CIRCUIT BOARD</b>					<b>PU01-MISCELLANEOUS</b>	
CG71		4822 124 22571	ELECT CAP. 10 $\mu$ F 50V	OA10605020	LU01		4822 158 60605	FERRITE BEAD	FC90050060
CG72		4822 124 22571	ELECT CAP. 10 $\mu$ F 50V	OA10605020	XU01		4822 242 72527	CERAMIC RESONATOR 4.000MHZ	FQ04004030
RG71		4822 101 30885	50K $\Omega$ MOTOR VARIABLE RES.	RY05030220				<b>PV01-INPUT SELECTOR CIRCUIT BOARD</b>	
			<b>PJ01-TAPE IN / OUT CIRCUIT BOARD</b>		DV01		4822 130 32362	DIODE 1SS254	HD20022210
JJ01		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690	JV01		4822 266 30282	TERMINAL, 2P RCA JACK	YT02020610
JJ02		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690	JV02		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690
			<b>PS01-TAPE MONI/TONE OUT./SPK. SW CIRCUIT BOARD</b>		LV01		4822 280 20501	RELAY MR62-24SR	LY20240410
RG51		4822 100 30138	100K $\Omega$ (MN), VARIABLE RES.	RM01041310	SV01		4822 277 21412	SLIDE SWITCH, SELECTOR	SS02040010
RW01		4822 116 60455	270 $\Omega$ $\pm$ 5% 2W, METAL RES.	NK05271020				<b>P451-PHONO AMP. CIRCUIT BOARD</b>	
DN51		4822 130 32364	DIODE 1SS254	HD20022210				<b>P451-CAPACITORS</b>	
JW01		4822 267 31479	SOCKET HEADPHONE	QP26731479	C455		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020
LN51		4822 280 20501	RELAY 2P 24V 2A MR62-24SR	LY20240410	C456		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020
SS01		4822 276 12956	PUSH SWITCH SPUP30	SP06030240	C457		4822 124 41539	ELECT 47 $\mu$ F 16V	OA47601620
			<b>PU01-TAPE INDICATOR/ <math>\mu</math>-COM CIRCUIT BOARD</b>		C458		4822 124 41539	ELECT 47 $\mu$ F 16V	OA47601620
			<b>PU01-CAPACITORS</b>		C467		4822 124 40244	ELECT 2.2 $\mu$ F 50V	OA22505020
CU01		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010	C468		4822 124 40244	ELECT 2.2 $\mu$ F 50V	OA22505020
CU03		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020	C469		4822 121 70198	FILM 3900PF $\pm$ 10% 100V	OF15392530
CU04		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020	C469		4822 121 70198	FILM 3900PF $\pm$ 10% 100V	OF15392530
CU05		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020	C471		4822 124 22238	ELECT 100 $\mu$ F 25V	OA10702550
CU07		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020	C472		4822 124 22238	ELECT 100 $\mu$ F 25V	OA10702550
CU08		4822 124 22571	ELECT 10 $\mu$ F 50V	OA10605020	C473		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
CU09		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010				<b>P451-RESISTORS</b>	
CU10		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020	▲R471		4822 111 90731	47 $\Omega$ $\pm$ 2% 1/4W, FUSIBLE	NF02470140
CU91		4822 122 40617	CER. 0.1 $\mu$ F +80% -20%	DD38104010	▲R472		4822 052 10479	47 $\Omega$ $\pm$ 5% 1/4W	GG05470140
			<b>PU01-RESISTORS</b>					<b>P451-SEMICONDUCTORS</b>	
RU09		4822 117 12425	100 $\Omega$ $\pm$ 5% 1/4W	GG05101140	D451		4822 130 34268	ZENER BZX79-C16	QP13034268
RU15		4822 117 12425	100 $\Omega$ $\pm$ 5% 1/4W	GG05101140	Q451		4822 209 73064	IC NJM2068D	HC10053090
▲RU54		4822 116 60309	2.2 $\Omega$ $\pm$ 5% 1/4W, FUSIBLE	NH05022140	J452		4822 265 20355	<b>P451-MISCELLANEOUS</b> TERMINAL, 2P RCA JACK	YT02020650
RY06		4822 116 60494	330 $\Omega$ $\pm$ 5% 2W, METAL	NK05331020				<b>P701-POWER AMP. CIRCUIT BOARD</b>	
			<b>PU01-SEMICONDUCTORS</b>					<b>P701-CAPACITORS</b>	
DU01		4822 130 32362	DIODE 1SS254	HD20022210	CN01		4822 124 22274	ELECT 4.7 $\mu$ F 50V	OA47505020
DU02		4822 130 32508	DIODE RL103E	HD20003000	CN02		4822 124 41543	ELECT 1 $\mu$ F 50V	OA10505020
DU04		4822 130 80326	LED LT3D8D (RED)	HI10062320	CN04		4822 124 22698	ELECT 47 $\mu$ F 25V	OA47602520
DY01		4822 130 80326	LED LT3D8D (RED)	HI10062320	CN05		4822 124 23417	ELECT 33 $\mu$ F 10V	OA33601020
DY03		4822 130 80326	LED LT3D8D (RED)	HI10062320	C701		4822 124 80123	ELECT 220 $\mu$ F 16V	OA22701640
DY04		4822 130 80326	LED LT3D8D (RED)	HI10062320	C702		4822 124 80123	ELECT 220 $\mu$ F 16V	OA22701640
DY05		4822 130 80326	LED LT3D8D (RED)	HI10062320	C705		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
DY06		4822 130 80317	ZENER MTZJ5.1B	HD30511000	C706		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
QU01		4822 209 90571	$\mu$ -PRO TMP47C200BN-H347	HU257JT000	C711		4822 123 30093	MICA 5PF $\pm$ 0.5PF 500V	DF31050520
QU02		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C712		4822 123 30093	MICA 5PF $\pm$ 0.5PF 500V	DF31050520
QU03		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C713		4822 123 30088	MICA 10PF $\pm$ 0.5PF 250V	DF31100520
QU04		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C714		4822 123 30088	MICA 10PF $\pm$ 0.5PF 250V	DF31100520
QU05		4822 130 83519	IR RECEIVER RPM674C8R-H22	HW10001210	C717		4822 124 90366	ELECT 220 $\mu$ F 50V	OA22705020
QU06		4822 130 42372	TRS. 2SA1048 (Y)	HT110481Y0	C718		4822 124 90366	ELECT 220 $\mu$ F 50V	OA22705020
QU07		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C719		4822 124 41536	ELECT 220 $\mu$ F 25V	OA22702520
QU09		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C720		4822 124 90363	ELECT 220 $\mu$ F 10V	OA22701020
QU10		4822 209 73287	IC LB1630	HC10235030	C751		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
					C752		4822 124 80293	ELECT 100 $\mu$ F 25V	OA10702520
					C753				
					f		4822 130 83519	FILM 120PF $\pm$ 5% 100V	OF15121550
					C756				

